10/579936 AP20 Rec'd PCTIPIO 19 MAY 2006

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Val Gln Glu Ala Leu Leu Pro Val Arg Glu Gln Phe Pro Ser Leu Ile 85 90 95

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Gly Leu Gln Ile Ala Thr Glu Lys Val Gln Ile Ser Asp Thr Gly Gln 130 135 140

Phe Leu Gly Ser Val Val Ser Pro Asp Lys Ile Val Pro Gln Lys Val 145 150 155 160

Glu Ile Arg Arg Asp His Leu His Thr Leu Asn Asp Phe Gln Lys Leu 165 170 175

Leu Gly Asp Ile Asn Trp Leu Arg Pro Phe Leu Lys Ile Pro Ser Ala 180 185 190

Glu Leu Arg Pro Leu Phe Ser Ile Leu Glu Gly Asp Pro His Ile Ser 195 200 205

Ser Pro Arg Thr Leu Thr Leu Ala Ala Asn Gln Ala Leu Gln Lys Val 210 215 220

Glu 225	Lys	Ala	Leu	Gln	Asn 230	Ala	Gln	Leu	Gln	Arg 235	Ile	Glu	Asp	Ser	Gln 240
Pro	Phe	Ser	Leu	Cys 245	Val	Phe	Lys	Thr	Ala 250	Gln	Leu	Pro	Thr	Ala 255	Val
Leu	Trp	Gln	Asn 260	Gly	Pro	Leu	Leu	Trp 265	Ile	His	Pro	Asn	Val 270	Ser	Pro
Ala	Lys	Ile 275	Ile	Asp	Trp	Tyr	Pro 280	Asp	Ala	Ile	Ala	Gln 285	Leu	Ala	Leu
Lys	Gly 290	Leu	Lys	Ala	Ala	Ile 295	Thr	His	Phe	Gly	Gln 300	Ser	Pro	Tyr	Leu
Leu 305	Ile	Val	Pro	Tyr	Thr 310	Ala	Ala	Gln	Val	Gln 315	Thr	Leu	Ala	Ala	Ala 320
Ser	Asn	Asp	Trp	Ala 325	Val	Leu	Val	Thr	Ser 330	Phe	Ser	Gly	Lys	Ile 335	Asp
Asn	His	Tyr	Pro 340	Lys	His	Pro	Ile	Leu 345	Gln	Phe	Ala	Gln	Asn 350	Gln	Ser
Val	Val	Phe 355	Pro	Gln	Ile	Thr	Val 360	Arg	Asn	Pro	Leu	Lys 365	Asn	Gly	Ile
Val	Val 370	Туг	Thr	Asp	Gly	Ser 375	Lys	Thr	Gly	Ile	Gly 380	Ala	Туг	Val	Ala
Asn 385	Gly	Lys	Val	Val	Ser 390	Lys	Gln	Tyr	Asn	Glu 395	Asn	Ser	Pro	Gln	Val 400
Val	Glu	Cys	Leu	Val 405	Val	Leu	Glu	Val	Leu 410	Lys	Thr	Phe	Leu	Lys 415	Pro
Leu	Asn	Ile	Val 420	Ser	Asp	Ser	Cys	Tyr 425	Val	Val	Asn	Ala	Val 430	Asn	Leu
Leu	Glu	Val 435	Ala	Gly	Val	Ile	Lys 440	Pro	Ser	Ser	Arg	Val 445	Ala	Asn	Ile
Phe	Gln 450	Gln	Ile	Gln	Leu	Val 455	Leu	Leu	Ser	Arg	Arg 460	Ser	Pro	Val	Tyr

OT004US.txt Page 16	OT	004US.	txt	Page	16
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Ile Thr His	Val Arg	Ala	His	Ser	Gly	Leu	Pro	Gly	Pro	Met	Ala	Leu
465		470					475					480

Gly Asn Asp Leu	Ala Asp Ly	ys Ala Thr	Lys Val	Val Ala	Ala Ala Leu
	485		490		495

Ser	Ser	Pro	Val	Glu	Ala	Ala	Arg	Asn	Phe	His	Asn	Asn	Phe	His	Val
			500					505					510		

Ala Leu Phe Thr Leu Asn Phe Leu Asn Ile Asp Ala His Gly His Thr 690 695 700

Ala Ala Glu Arg His Cys Ser Glu Pro Asp Arg Pro Asn Glu Met Val

705 710 71	15 720
Lys Trp Lys Asn Val Leu Asp Asn Lys Trp Ty 725 730	yr Gly Pro Asp Pro Ile 735
Leu Ile Arg Ser Arg Gly Ala Ile Cys Val Ph 740 745	ne Pro Gln Asn Glu Asp 750
Asn Pro Phe Trp Val Pro Glu Arg Leu Thr Ar 755 760	rg Lys Ile Gln Thr Asp 765
Gln Gly Asn Thr Asn Val Pro Arg Leu Gly As 770 775	sp Val Gln Gly Val Asn 780
Asn Lys Glu Arg Ala Ala Leu Gly Asp Asn Va 785 790 79	-
Asn Asp Gly Asp Val 805	
<210> 5 <211> 673 <212> DNA <213> Mus musculus <220> <223> CMV promoter sequence	
<400> 5 tggccattgc atacgttgta tccatatcat aatatgtac	ca tttatattgg ctcatgtcca 60
acattaccgc catgttgaca ttgattattg actagttat	t aatagtaatc aattacgggg 120
tcattagttc atagcccata tatggagttc cgcattaca	at aacttacggt aaatggcccg 180
cctggctgac cgcccaacga cccccgccca ttgacgtca	aa taatgacgta tgttcccata 240
gtaacgccaa tagggacttt ccattgacgt caatgggtg	gg agtatttacg gtaaactgcc 300
cacttggcag tacatcaagt gtatcatatg ccaagtacg	gc cccctattga cgtcaatgac 360
ggtaaatggc ccgcctggca ttatgcccag tacatgacc	et tatgggactt tcctacttgg 420
cagtacatct acgtattagt catcgctatt accatggtg	ga tgcggttttg gcagtacatc 480
aatgggcgtg gatagcggtt tgactcacgg ggatttcca	a gtctccaccc cattgacgtc 540
aatgggagtt tgttttggca ccaaaatcaa cgggacttt	c caaaatgtcg taacaactcc 600
gccccattga cgcaaatggg cggtaggcgt gtacggtgg	gg aggtctatat aagcagagct 660
cgtttagtga acc	673

OT004US.txt Page 18 (210) 6 <211> 655 <212> DNA <213> Mus musculus <220> <223> CA1 promoter sequence (without the R region and with two bases deletion in the promoter region in addition thereto) <400> 6 attgattatt gactagttat taatagtaat caattacggg gtcattagtt catagcccat 60 atatggagtt ccgcgttaca taacttacgg taaatggccc gcctggctga ccgcccaacg 120 acccccgccc attgacgtca ataatgacgt atgttcccat agtaacgcca atagggactt 180 tocattgacg toaatgggtg gactatttac ggtaaactgc ccacttggca gtacatcaag 240 tgtatcatat gccaagtacg ccccctattg acgtcaatga cggtaaatgg cccgcctggc 300 attatgccca gtacatgacc ttatgggact ttcctacttg gcagtacatc tacgtattag 360 tcatcgctat taccatgggt cgaggtgagc cccacgttct gcttcactct ccccatctcc 420 ccccctccc caccccaat tttgtattta tttatttttt aattattttg tgcagcgatg 480 ggggcggggg ggggggggc gcgcgccagg cggggcgggg cggggcgagg ggcggggcg 540 ggcgaggcgg agaggtgcgg cggcagccaa tcagagcggc gcgctccgaa agtttccttt 600 tatggcgagg cggcggcggc ggcggcccta taaaaagcga agcgcgcggc gggcg 655 <210> 7 (211) 657 <212> DNA <213> Mus musculus <220> <223> CA2 promoter sequence (without the R region) <400> 7 attgattatt gactagttat taatagtaat caattacggg gtcattagtt catagcccat 60 atatggagtt ccgcgttaca taacttacgg taaatggccc gcctggctga ccgcccaacg 120 180 acccccgccc attgacgtca ataatgacgt atgttcccat agtaacgcca atagggactt tccattgacg tcaatgggtg gactatttac ggtaaactgc ccacttggca gtacatcaag 240 300 tgtatcatat gccaagtacg ccccctattg acgtcaatga cggtaaatgg cccgcctggc attatgccca gtacatgacc ttatgggact ttcctacttg gcagtacatc tacgtattag 360 420 tcatcgctat taccatgggt cgaggtgagc cccacgttct gcttcactct ccccatctcc ccccctccc caccccaat tttgtattta tttattttt aattattttg tgcagcgatg 480 540 ggggcggggg gggggggc gcgcgccagg cggggcgggg cggggcgagg ggcggggcgg 600 ggcgaggcgg agaggtgcgg cggcagccaa tcagagcggc gcgctccgaa agtttccttt

tatggc	gagg	cggcggcggc	ggcggcccta	taaaaagcga	agcgcgcggc	gggcggg	6	57
<210><211><211><212><213>	8 278 DNA Gall	us gallus						
<220> <223>	avia	ın beta-acti	in promoter	sequence				
<400>	8							
tcgaggi	tgag	cccacgttc	tgcttcactc	tccccatctc	ccccctcc	ccaccccca	ıa	60
ttttgta	attt	atttatttt	taattatttt	gtgcagcgat	gggggcgggg	999999999	ıg 1	20
cgcgcg	ccag	gcggggcggg	gcggggcgag	gggcggggcg	gggcgaggcg	gagaggtgc	:g 1	80
gcggca	gcca	atcagagcgg	cgcgctccga	aagtttcctt	ttatggcgag	gcggcggcg	ıg 2	40
cggcggd	ccct	ataaaaagcg	aagcgcgcgg	cgggcggg			2	78
<210>	9							
<211>	41							
<212>	DNA							
<213>	Mus	musculus						
<220>								
⟨223⟩	forw	ard primer	sequence fo	or isolation	of the IAF	element	used	
	in E	xample 1	-					
<400>	9							
gcagcgg	gccg	ccgtggtggc	acacactttt	agtccccgca	g		•	41
<210>	10							
<211>	41							
<212>	DNA							
<213>	Mus	musculus						
<220>								
〈223〉		rse primer xample 1	sequence fo	or isolation	of the IAF	element	used	
<400>	10							
ggcgcad	ctag	tgatgccctc	tcaggcctcc	actcaggcac	t		•	41
<210>	11							
<211>	30							
<212>	DNA							
<213>	Mus	musculus						
<220>								
<223>		ard primer ent used in		or isolation	of the ful	.1 length	of the	IAP
<400>	11							
atoccca	ıgat	ttcttccacg	gctattaggg					30

<210>	12
<211>	30
<212>	DNA
<213>	Mus musculus
<220>	
<223>	reverse primer sequence for isolation of the full length of the IAP
	element used in Example 1
4400	10
,	12 ctct caggecteca etcaggeact 30
gatgee	cici cayyocioca cicayyoaci 30
<210>	13
<211>	
⟨212⟩	
<213>	Mus musculus
<220>	
<223>	forward primer sequence related to the CMV promoter used
	in Example 1 (c)
<400>	_ ·
ccaagc	ggcc gctggccatt gcatacgttg tatccatatc 40
4010	••
<210>	
<211>	
<212>	Mus musculus
(213)	rus musculus
<220>	
<223>	reverse primer sequence related to the CMV promoter used
,,	in Example 1 (c)
	•
<400>	14
gcgagaa	aaaa cggttcacta aacgagctct gcttatatag 40
<210>	
⟨211⟩	
	DNA Muse Turseylus
(213)	Mus musculus
<220>	
	forward primer sequence related to the R region of the IAP used
(225)	in Example 1 (c)
	in bhangas a (v)
<400>	15
ttagtga	aacc gtttttctcg ctctcttgct 30
<210>	16
<211>	
<212>	
(213)	Mus musculus
/220\	
<220>	reverse primer sequence related to the R region of the TAP used

```
OT004US.txt
               Page 21
       in Example 1 (c)
<400> 16
tctgaaatga agtatccctc ctgcgccagt
                                                                      30
<210> 17
⟨211⟩ 63
<212> DNA
<213> Mus musculus
<220>
<223> a linking sequence of a linker DNA used in Example 3
<400> 17
cgaatcgtaa ccgttcgtac gagaattcgt acgagaatcg ctgtcctctc caacgagcca
                                                                     60
                                                                     63
agg
<210> 18
<211> 26
<212> DNA
<213> Mus musculus
<220>
<223> a linking sequence of a linker DNA used in Example 3
<400> 18
                                                                     26
ccttggctcg ttttttttt caaaaa
<210> 19
(211) 25
<212> DNA
<213> Mus musculus
<220>
<223> a linker specific primer for use in the first round
      in Example 3 (forward)
<400> 19
                                                                     25
cgaatcgtaa ccgttcgtac gagaa
⟨210⟩ 20
⟨211⟩ 30
<212> DNA
<213> Mus musculus
(220>
<223> a linker specific primer for use in the first round
      in Example 3 (reverse)
<400> 20
                                                                     30
gagatgcatg ctttgcatac ttctgcctgc
<210> 21
(211) 25
<212> DNA
```

```
OT004US.txt
                Page 22
<213> Mus musculus
⟨220⟩
<223> a linker specific primer for use in the second round
       in Example 3 (forward)
<400> 21
tcgtacgaga atcgctgtcc tctcc
                                                                      25
⟨210⟩ 22
⟨211⟩ 30
<212> DNA
<213> Mus musculus
<220>
<223> a linking sequence of neo cassette specific primer for use
       in the second round in Example 3 (reverse)
<400> 22
ggagcctggg gactttccac acctggttgc
                                                                      30
<210> 23
<211>
      30
<212> DNA
<213> Mus musculus
<220>
<223> an alternative linking sequence of neo cassette specific primer
      for use in the second round in Example 3 (reverse)
<400> 23
                                                                      30
ggggagcctg gggactttcc acaccctaac
<210> 24
<211> 39
<212> DNA
<213> Gallus gallus
<220>
<223> a primer 5' upstream until the transcription initiation site of
      chicken beta-actin promoter used in Example 4
<400> 24
                                                                      39
gcaatgcggc cgcattgatt attgactagt tattaatag
<210> 25
<211> 39
<212> DNA
<213> Gallus gallus
<220>
<223> a primer 3' of chicken beta-actin promoter used in Example 4
<400> 25
                                                                      39
cgagaaaaac cgcccgccgc gcgcttcgct ttttatagg
```

```
OT004US.txt
             Page 23
<210> 26
<211> 40
<212> DNA
<213> Gallus gallus
<220>
<223> an alternative primer 3' of chicken beta-actin promoter used
       in Example 4
<400> 26
cgagaaaaac cccgcccgcc gcgcgcttcg ctttttatag
                                                                      40
<210> 27
<211> 36
<212> DNA
<213> Mus musculus
<220>
<223> a primer of the 5' upstream from the 5' terminus of the R region of
       the IAP to the downstream of the U5 region used in Example 4
<400> 27
                                                                     36
cgcggcggc ggtttttctc gctctcttgc ttcttg
<210> 28
<211> 30
<212> DNA
<213> Mus musculus
<220>
<223> a primer of the 3' side from the 5' terminus of the R region of the IAP
      to the downstream of the U5 region used in Example 4
<400> 28
                                                                     30
tctgaaatga agtatccctc ctgcgccagt
<210> 29
<211> 36
<212> DNA
<213> Mus musculus
<220>
      an alternative primer of the 3' side from the 5' terminus of
      the R region of the IAP to the downstream of the U5 region used
      in Example 4
<400> 29
                                                                     36
cggcgggcgg ggtttttctc gctctcttgc ttcttg
<210> 30
⟨211⟩ 903
<212> DNA
<213> Mus musculus
⟨220⟩
<223> gamma globin intron sequence
```

<400>	30		2002010110	aatttaatat	ogagggaagt	t	60
grgagr	ccag	gagatgtttc	agcactgitg	cctttagtct	cgaggcaact	Lagacaactg	60
agtatt	gatc	tgagcacagc	agggtgtgag	ctgtttgaag	atactggggt	tgggggtgaa	120
gaaact	gcag	aggactaact	gggctgagac	ccagtggcaa	tgttttaggg	cctaaggaat	180
gcctct	gaaa	atctagatgg	acaactttga	ctttgagaaa	agagaggtgg	aaatgaggaa	240
aatgact	tttt	ctttattaga	tttcggtaga	aagaactttc	acctttcccc	tatttttgtt	300
				gacaagtatg			360
agaaggo	cata	tattggctca	gtcaaagtgg	gggaactttg	gtggccaaac	atacattgct	420
aaggcta	attc	ctatatcagc	tggacacata	taaaatgctg	ctaatgcttc	attacaaact	480
tatatco	cttt	aattccagat	gggggcaaag	tatgtccagg	ggtgaggaac	aattgaaaca	540
tttggg	ctgg	agtagatttt	gaaagtcagc	tctgtgtgtg	tgtgtgtgtg	tgtgtgtgtg	600
tgtgtgt	tgcg	cgcacgtgtg	tttgtgtgtg	tgtgagagcg	tgtgtttctt	ttaacgtttt	660
cagccta	acag	catacagggt	tcatggtggc	aagaagataa	caagatttaa	attatggcca	720
gtgacta	agtg	ctgcaagaag	aacaactacc	tgcatttaat	gggaaagcaa	aatctcaggc	780
tttgagg	ggaa	gttaacatag	gcttgattct	gggtggaagc	tgggtgtgta	gttatctgga	840
ggccag	gctg	gagctctcag	ctcactatgg	gttcatcttt	attgtctcct	ttcatctcaa	900
cag							903
<210><211><211><212><213>	31 15 DNA Mus	musculus					
<220> <223>	a se	equence of t	he tRNA bir	nding site o	of the full	length IAP	
<400> tccggga	31 acga	gaaaa					15
<210>	32						
⟨211⟩	15						
<212>	DNA	mucculue					
<213>	mus	musculus					
<220>						_	
<223>	a re	epeat sequer	ce of the F	region of	the full le	ength IAP	
<400>	32						
ttgcttc	-	ctctc					15

<210> 33 <211> 17 <212> DNA

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OT004US.txt
                Page 25
<213> Mus musculus
<220>
<223> a specific sequence for the full length IAP (tRNA binding site)
<400> 33
tggtgccgaa ttccggg
                                                                       17
<210> 34
⟨211⟩ 15
<212> DNA
<213> Mus musculus
<220>
\langle 223 \rangle a tandem repeat sequence specific for the full length IAP
<400> 34
                                                                       15
aatccgggac gagaa
<210> 35
<211> 11
<212> DNA
<213> Mus musculus
<220>
<223> a repeat sequence of the R region found in the full length IAP
<400> 35
                                                                       11
ttgcttcttg c
<210> 36
<211> 378
<212> DNA
<213> Mus musculus
<220>
<223> cytomegalovirus (CMV) enhancer sequence
<400> 36
                                                                       60
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atatggagtt ccgcgttaca taacttacgg taaatggccc gcctggctga ccgcccaacg
                                                                      120
                                                                      180
acccccgccc attgacgtca ataatgacgt atgttcccat agtaacgcca atagggactt
tocattgacg toaatgggtg gagtatttac ggtaaactgc ccacttggca gtacatcaag
                                                                      240
                                                                      300
tgtatcatat gccaagtacg ccccctattg acgtcaatga cggtaaatgg cccgcctggc
                                                                      360
attatgccca gtacatgacc ttatgggact ttcctacttg gcagtacatc tacgtattag
                                                                      378
tcatcgctat taccatgg
<210> 37
<211> 30
<212> DNA
```

<213> Artificial

<220>		
<223>	synthetic sequence in the sense direction of 1st primer used in Example 8	
<400>	37	
agggct	gcgg caagggcaac atcctgttcg	30
<210>	38	
<211>	30	
<212>	DNA	
<213>	Artificial	
<220>		
⟨223⟩	synthetic sequence in the antisense direction of 1st primer use	đ
	in Example 8	
<400>	38	
	* -	30
35	,	
<210>	39	
⟨211⟩	30	
	DNA	
<213>	Artificial	
<220>		
<223>	synthetic sequence in the sense direction of 2nd primer used in Example 8	
	In Drampto V	
<400>	39	
ggcaac	cage tggtgcagat cegegtgace	30
<210>	40	
<211>	30	
<212>		
<213>	Artificial	
<220>		
<223>	synthetic sequence in the antisense direction of 2nd primer use in Example $\boldsymbol{8}$	đ
<400>	40	
	- -	30